

Kinase Akt1/PKB alpha Active Enzyme Recombinant Protein | PKAkt1/PKBa recombinant protein

Recombinant Human Protein Kinase Akt1/PKB alpha Active Enzyme

CATALOG # AAA38386	HOST Sf9 Insect Cells
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PRODUCT SYNONYMS

Kinase Akt1/PKB alpha Active Enzyme; Recombinant Human Protein Kinase Akt1/PKB alpha Active Enzyme; PKAkt1/PKBa Human; Protein Kinase Akt1/PKB alpha; Active enzyme Human Recombinant; RAC-alpha serine/threonine-protein kinase; EC 2.7.11.1; RAC-PK-alpha; Protein kinase B; PKB; C-AKT; AKT1; AKT; RAC; PRKBA; MGC99656; RAC-ALPHA; PKAkt1/PKBa recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 Insect Cells
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	PKAkt1 1.9mg/ml, in 50mM NaCl, 1mM DTT, 25mM beta glycerophosphate, 50% glycerol, pH 8.5. Sterile Filtered clear solution.
Sequence Length	480
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Avoid multiple freeze-thaw cycles. Unit Definition 20.000 Units/mg (1 Unit = 1 pmol/min transferred to synthetic peptide RPRAATF at 30 degree Celsius). No protease activity detectable.

ADDITIONAL INFORMATION

Related Product Information for PKAkt1/PKBa recombinant protein	Description: Recombinant Human Protein Kinase B is a glycosylated polypeptide having a molecular mass of 59.1 kDa. Recombinant Protein Kinase B is purified by proprietary chromatographic techniques. Introduction: Akt1, also known as "Akt" or protein kinaseB (PKB) is an important molecule in mammalian cellular signaling. In humans, there are three genes in the "Akt family": Akt1, Akt2, and Akt3. These enzymes are members of the serine/threonine-specific protein kinase family (EC 2.7.11.1). Akt1 is involved in cellular survival pathways, by inhibiting apoptotic processes. Akt1 is also able to induce protein synthesis pathways, and is therefore a key signaling protein in the cellular pathways that lead to skeletal muscle hypertrophy, and general tissue growth. Since it can block apoptosis, and thereby promote cell survival, Akt1 has been implicated as a major factor in many types of cancer. Akt (now also called Akt1) was originally identified as the oncogene in the transforming retrovirus, AKT8.
Product Categories/Family for PKAkt1/PKBa recombinant protein	Protein Kinases; Enzymes; Protein Kinase Akt1/PKB alpha

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
NCBI GeneID	207
NCBI Accession #	NP_001014431.1
NCBI GenBank Nucleotide #	NM_001014431.1
UniProt Accession #	P31749; Q9BWB6; B2RAM5; B7Z5R1
Molecular Weight	48,347 Da

NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase; AKT1m; PKB alpha; RAC-PK-alpha; protein kinase B alpha; proto-oncogene c-Akt; rac protein kinase alpha
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha
UniProt Entry Name	AKT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/akt1-recombinant-protein-sf9-insect-cells/38386>